CLAIMS

- (Currently Amended) An electric drive unit for generating an oscillating movement, the drive unit comprising:
 - a stator;
 - a rotor;
 - a torsion element; and
 - a tuning element, which acts upon the torsion element and serves for mechanically tuning the resonant frequency of the drive unit, wherein the rotor comprises a hollow shaft, and wherein the torsion element is at least partially arranged within the hollow shaft.
- (Currently Amended) The drive unit according to claim 1, wherein the tuning element is arranged to secure the torsion element in a selectable position.
- (Currently Amended) The drive unit according claim
 wherein the tuning element is arranged on the stator such that it can be displaced and fixed in position.
- 4. (Currently Amended) The drive unit according to claim 3, wherein the tuning element is displaceable parallel to the longitudinal axis of the drive unit.
- 5. (Currently Amended) The drive unit according to claim 3, wherein the tuning element engages into at least one groove in the stator.
- 6. (Currently Amended) The drive unit according to claim 1, wherein the tuning element comprises a clamping device.

- 7. (Currently Amended) The drive unit according to claim 6, wherein the tuning element comprises two parts and at least one connecting element configured to draw the two parts together.
- (Currently Amended) The drive unit according to claim 1, wherein the torsion element is fixed on the rotor.
- (Currently Amended) The drive unit according to claim 1, wherein the torsion element comprises a torsion rod.
- 10. (Currently Amended) The drive unit according to claim 1, further comprising a housing having a recess arranged to accommodate the tuning element.
- 11. (Currently Amended) The drive unit according to claim 1, wherein the stator comprises permanent magnets and at least one coil.
- 12. (Currently Amended) The drive unit according to claim 1, wherein the rotor comprises an armature of a magnetizable material.
- 13. (Currently Amended) A small electric appliance, comprising drive unit of claim 1.
- 14. (Currently Amended) The small appliance of claim 13, in the form of an electric toothbrush or an electric razor.
- 15. (Currently Amended) A method of manufacturing an electric drive unit for generating an oscillating movement, wherein the drive unit comprises a stator, a rotor, a torsion element and a tuning

element, and wherein the resonant frequency of the drive unit is mechanically tuned, the method comprising:

exciting the drive unit to generate an oscillating movement; and

determining from the oscillating movement a desired location on the torsion element for securing the tuning element to tune a resonant frequency of the drive unit.

- 16. (Currently Amended) The method of claim 15, further comprising fixing the torsion element on the tuning element in the desired location.
- 17. (Currently Amended) The method according to claim 16, wherein exciting the drive unit comprises exciting the drive unit by pulses.
- 18. (Currently Amended) The method according to claim 15, further comprising switching the drive unit off, and then fixing the torsion element in a rotational position that the rotor assumes when the drive unit is switched off.